**Weather Dance**

**2nd grade**

**Science**

**NCSCOS:**

**Science:**

Objective 2.03

Describe weather using quantitative measures of:

* Temperature.
* Wind direction.
* Wind speed.
* Precipitation.

Objective 2.06

Observe and record weather changes over time and relate to time of day and time of year.

**Social Studies:**

Objective 8.03

Interpret data on charts and graphs and make predictions.

**Dance:**

Objective 1.02

Demonstrate and identify the element of space in dance: personal/general, locomotor/non-locomotor movement, axial movement, shape, level, direction, and pathways.

Objective 1.04

Demonstrate and identify the element of energy/dynamics in dance.

Objective 2.04

Improvise, create, and perform dance sequences using ideas and concepts from other sources.

Objective 2.05

Demonstrate the ability to work effectively alone and with a partner.

**Student Objective:**

* Given weather data for a week, the students will work in groups to choreograph a simple movement sequence that demonstrates the changes in at least three of the following areas: temperature, wind direction, wind speed, and precipitation.

**Materials:**

* Weather data for each group

**Background Information:**

Four of the ways we talk about moving are: shape (round, straight, square), level (low, middle, high), direction (forwards, backwards, sideways), and energy (low, medium, or high). These movement principles can be used to simulate the weather and changes in weather conditions.

**Procedures:**

1. Show students example weather data: temperature, wind direction, wind speed, and precipitation minimally.
2. Discuss with the students the changes that occur from day to day/ month to month, etc.
3. Ask students how they can use the movement principles to demonstrate these changes. Brainstorm several ideas together. *Example:* *A decrease in wind speed can be shown by dropping from a high level to a low level or by going from high energy movement to low energy movement.*
4. Divide the class into groups of 5-7.
5. Each group will be given a set of data. Their task is to simulate the data using a movement sequence in which they apply the principles of shape, level, direction, and energy appropriately.

**Closure**

Today we have looked at data of changes in the weather. What changes did you observe? What might these changes mean? How did you use movement to demonstrate the changes? What do you think the weather will be like the next day?

**Assessment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** |
|  |  |  |  |  |

**Sample Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Temperature** | **75°F** | **75°F** | **79°F** | **81°F** | **70°F** |
| **Wind Speed** | **10 mph** | **10 mph** | **12 mph** | **17 mph** | **20 mph** |
| **Wind Direction** | **NE** | **NW** | **SW** | **SE** | **ENE** |
| **Precipitation** | **None** | **Rain** | **Rain** | **None** | **None** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Temperature** | **58°F** | **63°F** | **60°F** | **55°F** | **70°F** |
| **Wind Speed** | **16 mph** | **20 mph** | **21 mph** | **18 mph** | **25 mph** |
| **Wind Direction** | **NE** | **S** | **E** | **NW** | **ENE** |
| **Precipitation** | **None** | **None** | **Rain** | **Rain** | **None** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Temperature** | **21°F** | **30°F** | **35°F** | **33°F** | **27°F** |
| **Wind Speed** | **20 mph** | **15 mph** | **12 mph** | **15 mph** | **14 mph** |
| **Wind Direction** | **N** | **SE** | **SW** | **SE** | **SWS** |
| **Precipitation** | **Snow** | **Snow** | **Ice** | **None** | **None** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Temperature** | **45°F** | **41°F** | **50°F** | **56°F** | **52°F** |
| **Wind Speed** | **18 mph** | **10 mph** | **14 mph** | **10 mph** | **5 mph** |
| **Wind Direction** | **NE** | **NW** | **SW** | **SE** | **ENE** |
| **Precipitation** | **None** | **Rain** | **None** | **None** | **None** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **Temperature** | **75°F** | **80°F** | **85°F** | **87°F** | **90°F** |
| **Wind Speed** | **10 mph** | **50 mph** | **45 mph** | **60 mph** | **20 mph** |
| **Wind Direction** | **NE** | **E** | **S** | **NW** | **W** |
| **Precipitation** | **None** | **Hail** | **Rain** | **Hail** | **None** |